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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	10/723,562
Filing Date	November 25, 2003
First Named Inventor	John Santhoff et al.
Art Unit	2661
Examiner Name	to be assigned
Attorney Docket Number	052-110

Sheet	1	of	2
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U. S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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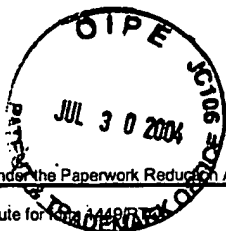
**Examiner
Signature**

Date Considered

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/088 (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

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Substitute for Form 1449 PTO

**INFORMATION DISCLOSURE
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Sheet

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of

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
CLD		5. NOAM GERI, Hybrid Coax-Wireless Multimedia Home Networks Using 802.11 Technology, Texas Instruments, White Paper, March 2003, 7 pages.	

Examiner Signature		Date Considered	5/17/05
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Compl te if Known	
Sheet 1 of 4			Application Number	To be assigned
			Filing Date	November 25, 2003
			First Named Inventor	John SANTHOFF et al.
			Art Unit	To be assigned
			Examiner Name	To be assigned
			Attorney Docket Number	30287-110

U.S. PATENT DOCUMENTS					
Examiner Initials ¹	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (If known)			
CLD		US- 3,678,204	07/18/1972	HARMUTH	
CLD		US- 3,728,632	04/17/1973	ROSS	
CLD		US- 4,447,747	05/08/1984	LAPOTIN	
CLD		US- 4,641,317	02/03/1987	FULLERTON	
CLD		US- 4,782,324	11/01/1988	UNDERWOOD	
CLD		US- 4,979,186	12/18/1990	FULLERTON	
CLD		US- 5,115,409	05/19/1992	STAPP	
CLD		US- 5,146,616	09/08/1992	TANG ET AL.	
CLD		US- 5,157,559	10/20/1992	GLEASON ET AL.	
CLD		US- 5,362,108	11/08/1994	FULLERTON	
CLD		US- 5,515,014	05/07/1996	TROUTMAN	
CLD		US- 5,574,755	11/12/1996	PERSICO	
CLD		US- 5,587,687	12/24/1996	ADAMS	
CLD		US- 5,635,863	06/03/1997	PRICE, JR.	
CLD		US- 5,677,927	10/14/1997	FULLERTON ET AL.	
CLD		US- 5,687,169	11/11/1997	FULLERTON	
CLD		US- 5,687,200	11/11/1997	BERGER	
CLD		US- 5,708,377	01/13/1998	BRADLEY	
CLD		US- 5,714,954	02/03/1998	CHUNG ET AL.	
CLD		US- 5,768,700	06/16/1998	KARDONTCHIK	

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Examiner Signature	<i>Cynthia Lewis</i>	Date Considered	5/17/08
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			Application Number	To be assigned	
			Filing Date	November 25, 2003	
			First Named Inventor	John SANTHOFF et al.	
			Art Unit	To be assigned	
			Examiner Name	To be assigned	
			Attorney Docket Number	30287-110	
Sheet	2	of	4		

U.S. PATENT DOCUMENTS					
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		Number - Kind Code ² (if known)			
CLD		US- 5,847,623	12/08/1998	HADJICHRISTOS	
CLD		US- 5,872,446	02/16/1999	CRANFORD, JR. ET AL.	
CLD		US- 5,900,747	05/04/1999	BRAUNS	
CLD		US- 5,986,501	11/16/1999	RAFATI ET AL.	
CLD		US- 6,026,125	02/15/2000	LARRICK, JR. ET AL.	
CLD		US- 6,031,862	02/29/2000	FULLERTON ET AL.	
CLD		US- 6,043,943	03/28/2000	REZZI ET AL.	
CLD		US- 6,054,889	04/25/2000	KOBAYASHI	
CLD		US- 6,061,551	05/09/2000	SORRELLS ET AL.	
CLD		US- 6,078,277	06/20/2000	CHENG ET AL.	
CLD		US- 6,087,871	07/11/2000	KARDO-SYSSOE ET AL.	
CLD		US- 6,118,339	09/12/2000	GENTZLER ET AL.	
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CLD		US- 6,281,822 B1	08/28/2001	PARK	
CLD		US- 6,351,652 B1	02/26/2002	FINN ET AL.	
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CLD		US- 6,433,720 B1	08/13/2002	LIBOVE ET AL.	
CLD		US- 6,539,213 B1	03/25/2003	RICHARDS ET AL.	
CLD		US- 6,580,902 B1	06/17/2003	SORRELLS ET AL.	
CLD		US- 2001/0019313A1	09/02/2001	TAKAHASHI ET AL.	

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Examiner Signature	<i>Amelia Lewis</i>	Date Considered	5/17/05
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	To be assigned
		Filing Date	November 25, 2003
		First Named Inventor	John SANTHOFF et al.
		Art Unit	To be assigned
		Examiner Name	To be assigned
		Attorney Docket Number	30287-110
Sheet	3	of	4

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
CLD		US- 2003/0048212A1	03/13/2003	Libove et al.	
CLD		US-2003/0161382 A1	08/28/2003	Hershey et al.	
CLD		US- 5,793,413	08/11/1998	Hyllon et al.	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁸
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				

Examiner Signature	<i>Anthony J. Davis</i>	Date Considered	5/17/03
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		Filing Date	November 25, 2003
		First Named Inventor	John SANTHOFF et al.
		Group Art Unit	To be assigned
		Examiner Name	To be assigned
		Attorney Docket Number	30287-110
Sheet	4	of	4

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s); volume-issue number(s), publisher, city and/or country where published.	T ²
ced		FERNANDO RAMIREZ-MIRELES, "On Performance of Ultra Wideband Signals in Gaussian Noise and Dense Multipath," Paper 99C265, Accepted for Publication in the IEEE Transactions on Vehicular Technology, Pages 1-9.	
ced		FERNANDO RAMIREZ-MIRELES et al., "N-Orthogonal Time-Shift-Modulated Codes for Impulse Radio," Communication Sciences Institute, Department of Electrical Engineering-Systems, University of Southern California, Los Angeles, CA 90089-2565 USA, Pages 1-4.	
ced		HENNING F. HARMUTH, "Frequency-Sharing and Spread-Spectrum Transmission with Large Relative Bandwidth," IEEE Transactions on Electromagnetic Compatibility, Vol. EMC-20, No. 1, February 1978, Pages 232-239.	
ced		HENNING F. HARMUTH, "Applications of Walsh functions in communications," IEEE Spectrum, November 1969, Pages 82-91.	
ced		AETHER WIRE & LOCATION, INC., ROBERT FLEMING et al., "Integrated, Low-Power, Ultra-Wideband Tranceivers for Distributed Position Location and Communication," Technical Abstracts of Proposal to Defense Advanced Research Projects Agency (DARPA), Part I - Technical Proposal, 1998, Pages 1-52.	
ced		AETHER WIRE & LOCATION, INC., ROBERT FLEMING et al., "Low-Power, Miniature, Distributed Position Location and Communication Devices Using Ultra-Wideband, Nonsinusoidal Communication Technology," Semi-Annual Technical Report Prepared for: ARPA/FBI, July 1995, Pages 1-40.	
ced		HENNING F. HARMUTH, "Fundamental Limits for Radio Signals with Large Bandwidth", IEEE Transactions on Electromagnetic Compatibility, February 1981, Vol. EMC-23, No. 1, Pages 37-43.	

Examiner Signature		Date	5/17/05
		Considered	

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